

6-24-02



OIFE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002 P.6

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

```

3 <110> APPLICANT: Goulmy, Elsa
5 <120> TITLE OF INVENTION: METHOD FOR TYPING OF MINOR HISTOCOMPATIBILITY ANTIGEN HA-1
7 <130> FILE REFERENCE: 58994
9 <140> CURRENT APPLICATION NUMBER: 09/269,250E
10 <141> CURRENT FILING DATE: 1999-05-21
12 <160> NUMBER OF SEQ ID NOS: 38
14 <170> SOFTWARE: PatentIn version 3.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 377
18 <212> TYPE: DNA
19 <213> ORGANISM: Human
21 <400> SEQUENCE: 1
22 gtgagagcca cggggacacc gaggcctggg tggagacag agccagaccc aagggaggat      60
24 ggagggaggag acttggggag gctcagaagg gagggaggct cagatggcag ggagggctgt      120
26 gtggaagagg ccatgacagc taaggctctg agggatgtgt aggagtttg tgggggagtc      180
28 cctgagcgta cactggetca agaggggtgcc cactttattt tttttaagg atctgatggc      240
30 aattaggagg gaaaggcaga ggaaatgtcc catgcacagg ctcagaaaca cggaaacaga      300
32 gaatgcattt gggggccaag gtgtgggggtg ccgctggtgt aggatgaagg catgacaacg      360
34 ccaggcagaa gggcaat                                     377
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 20
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
45 <400> SEQUENCE: 2
46 gtgctgcctc ctggacactg                                     20
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 20
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
57 <400> SEQUENCE: 3
58 tggctctcac cgtcatgcag                                     20
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 20
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
69 <400> SEQUENCE: 4
70 tggctctcac cgtcacgcaa                                     20

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

73 <210> SEQ ID NO: 5
74 <211> LENGTH: 20
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
81 <400> SEQUENCE: 5
82 gcattctctg ttccggtgtt 20
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
93 <400> SEQUENCE: 6
94 cttaaggagt gtgtgctgca 20
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 20
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
105 <400> SEQUENCE: 7
106 cttaaggagt gtgtgttgcg 20
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 20
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
117 <400> SEQUENCE: 8
118 gctgtcatgg cctcttccac 20
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
129 <400> SEQUENCE: 9
130 gcattctctg ttccggtgtt 20
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 20
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
141 <400> SEQUENCE: 10
142 ggcagagagc cctcgagcc 20
145 <210> SEQ ID NO: 11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

```

146 <211> LENGTH: 18
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
153 <400> SEQUENCE: 11
154 gtgtgttgcg tgacggtg
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 15
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
165 <400> SEQUENCE: 12
166 gtgtgttgcg tgacg
169 <210> SEQ ID NO: 13
170 <211> LENGTH: 16
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
177 <400> SEQUENCE: 13
178 tgtgtgttgcg tgacg
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 19
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
189 <400> SEQUENCE: 14
190 tgtgtgctgc atgacggtg
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 18
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
201 <400> SEQUENCE: 15
202 tgtgtgctgc atgacggt
205 <210> SEQ ID NO: 16
206 <211> LENGTH: 18
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
213 <400> SEQUENCE: 16
214 gtgtgctgca tgacggtg
217 <210> SEQ ID NO: 17
218 <211> LENGTH: 27

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

```

219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
227 <222> LOCATION: (1)..(27)
228 <223> OTHER INFORMATION:
231 <400> SEQUENCE: 17
232 gtg ttg cgt gac gac ctc ctt gag gcc
233 Val Leu Arg Asp Asp Leu Leu Glu Ala
234 1 5
237 <210> SEQ ID NO: 18
238 <211> LENGTH: 9
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
245 <400> SEQUENCE: 18
247 Val Leu Arg Asp Asp Leu Leu Glu Ala
248 1 5
251 <210> SEQ ID NO: 19
252 <211> LENGTH: 27
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
259 <220> FEATURE:
260 <221> NAME/KEY: CDS
261 <222> LOCATION: (1)..(27)
262 <223> OTHER INFORMATION:
265 <400> SEQUENCE: 19
266 gtg ctg cat gac gac ctc ctt gag gcc
267 Val Leu His Asp Asp Leu Leu Glu Ala
268 1 5
271 <210> SEQ ID NO: 20
272 <211> LENGTH: 9
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
279 <400> SEQUENCE: 20
281 Val Leu His Asp Asp Leu Leu Glu Ala
282 1 5
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 23
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:

```

27

27

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:47

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

```

291 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
293 <400> SEQUENCE: 21
294 gtgttgctg acggtgagag cca                                     23
297 <210> SEQ ID NO: 22
298 <211> LENGTH: 37
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Exon Fragments
305 <400> SEQUENCE: 22
306 ctactccga ctctcccag cagacctct tgaggcc                         37
309 <210> SEQ ID NO: 23
310 <211> LENGTH: 33
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
317 <400> SEQUENCE: 23
318 ccggcatgga cgtcgtcgag gacatctccc atc                         33
321 <210> SEQ ID NO: 24
322 <211> LENGTH: 30
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
329 <400> SEQUENCE: 24
330 ctacttcagg ccacagcaat cgtctccagg                             30
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 39
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Product
341 <220> FEATURE:
342 <221> NAME/KEY: CDS
343 <222> LOCATION: (1)..(39)
344 <223> OTHER INFORMATION:
347 <400> SEQUENCE: 25
348 gag tgt gtg ttg cgt gac gac ctc ctt gag gcc cgc cgc         39
349 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg
350 1          5          10
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 13
355 <212> TYPE: PRT
356 <213> ORGANISM: Artificial Sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Product
361 <400> SEQUENCE: 26
363 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002
TIME: 14:12:48

Input Set : A:\58994.txt
Output Set: N:\CRF3\04262002\I269250E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:29; Xaa Pos. 3
Seq#:37; Xaa Pos. 2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/269,250E

DATE: 04/26/2002

TIME: 14:12:48

Input Set : A:\58994.txt

Output Set: N:\CRF3\04262002\I269250E.raw

L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0